## ABSTRACT

## [PROBLEMS]

To provide a cooling system in which the efficiency of a refrigerator will not decrease in obtaining a predetermined temperature and humidity in a cooled room even when there is a change in the outside temperature and so on.

## [MEANS FOR SOLVING]

An air conditioning system comprising a dehumidifier,

a compressor into which a first air is introduced, a heat
exchanger into which the first air compressed by the
compressor is introduced, and an expander into which the
first air heat-exchanged by the heat exchanger is
introduced and which is connected with the compressor

through a connection mechanism, wherein moisture content
of a dehumidifying agent in the dehumidifier is decreased
by a second air heat-exchanged with the first air by the
heat exchanger.